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сонгим тідимо. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE DP-308450 1688 06/24/2003 Prasad Shripad Kadle 10/602,380 EXAMINER 06/23/2004 22851 ALI, MOHAMMAD M DELPHI TECHNOLOGIES, INC. M/C 480-410-202 PAPER NUMBER ART UNIT PO BOX 5052 3744 TROY, MI 48007

DATE MAILED: 06/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/602,380	KADLE ET AL.
Office Action Summary	Examiner	Art Unit
	Mohammad M Ali	3744
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on <u>24 June 2003</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) Claim(s) 1-10 is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-10</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>24 June 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s)	4) 🔲 Interview Summary	, (PT∩-413)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)

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Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the" thermoelectric device" for claims 5 and 10 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-4 and 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imral et al. (4,236,381) in view of Telesz et al. (6,389,842). Imral et al. disclose a

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suction liquid heat exchanger comprising a compressor g, a condenser/outdoor coil b, an evaporator/indoor coil a, a discharge fluid line interconnecting the compressor g and the condenser b, a fluid line interconnecting the condenser b and the evaporator a, a suction fluid line interconnecting the evaporator a and the compressor g, an accumulator/dehydrator (accumulator-receiver)/ suction-liquid heat exchanger 10 disposed in the suction fluid line for accumulating refrigerant, and a heat transfer jacket surrounding the accumulator-receiver for exchanging heat with the accumulator-receiver 10 and the refrigerant therein. See Fig. 1 and 2. Imral et al. disclose the invention substantially as claimed as stated above. However, Imral et al. do not disclose a combined accumulator/dehydrator. Telesz et al. teach the use of an accumulator/dehydrator 10 in an air conditioning system for the purpose of separating liquid refrigerant from the gaseous refrigerant and absorbing moisture therefrom. See Fig.1. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the suction liquid heat exchanger of Imral et al. in view of Telesz et al. such that a dehydrator portion could be provided in order to dehydrate the refrigerant.

Claims 5 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imral et al. in view of Telesz et al. as applied to claim 1 and 6 above and further in view of Bergman et al. (6,319,841). Imral et al. in view of Telesz et al. disclose the invention substantially as claimed as stated above. However, Imral et al. in view of Telesz et al. do not disclose a thermoelectric device/ Bergman et al. teach the use of a thermoelectric device 38 with a cooler jacket 38 and accumulator 37 in a liquid and

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gaseous environment for the heat exchanging purposes See Fig.1. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the suction liquid heat exchanger of Imral et al. in view of Telesz et al. and further in view of Bergman et al. such that a thermoelectric device could be provided in order to exchange heat.

Any inquiry concerning this communication or earlier from the examiner should be directed to Mohammad M. Ali, whose telephone number is (703) 308-5032. The examiner can be reached from 6:10am to 4:30pm from Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel, can be reached at (703) 308-2597. The fax number for the organization where this application or proceeding is assigned is 703-308-7764 for regular communications and after-final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

Md. Mohain Ale Mohammad M. Ali

June 18, 2004